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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-176226

(43)Date of publication of application : 08.07.1997

(51)Int.Cl.

C08F 4/658

C08F 10/02

(21)Application number : 07-330675

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(22)Date of filing : 19.12.1995

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## (54) PRODUCTION OF SUPPORTED CATALYST FOR POLYMERIZATION OF ETHYLENE AND FOR COPOLYMERIZATION OF ETHYLENE WITH ALPHA-OLEFIN

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a polymer having a controlled narrow particle size distribution and a high bulk density by performing the (co)polymerization in the presence of a catalyst prepared by reacting a specified organomagnesium compound (A) with an organohalogen compound (B) under specified conditions.

SOLUTION: In producing a supported catalyst for the polymerization of ethylene or the copolymerization of ethylene with an  $\alpha$ -olefin by reacting a solution of component A with component B to form a magnesium-containing support and treating this support with a titanium or vanadium compound, component A used is a compound having a composition represented by the formula:  $MgPh_2/nMgCl_2/mR_2O$  (wherein (n) is 0.37-0.7;  $m \geq 0.5$ ;  $R_2O$  is an ether; and Ph is a phenyl). This compound is obtained by reacting metallic magnesium with chlorobenzene in the presence of dibutyl ether. Component B is, for example, carbon tetrachloride. Component A is reacted with component B at a component B/Mg molar ratio of 0.5 or above at -20 to 80°C to obtain the objective supported catalyst.

## LEGAL STATUS

[Date of request for examination] 19.12.1995

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 2759780

[Date of registration]

20.03.1998

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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